

AGGREGATE BASE COURSE, TYPE B CA-7 OR CA-11 FILTER FABRIC ENVELOPE SECTION

PROPOSED PAVEMENT PIPE UNDERDRAIN, PERFORATED POLYVINYL CHLORIDE PIPE, 6"

> IN ADDITION TO THE REQUIREMENTS OF ARTICLE 601.01 OF THE STANDARD SPECIFICATIONS, THE PIPE UNDERDRAINS, PERFORATED PVC PIPE 6" SHALL INCLUDE THE COST FOR FURNISHING AND PLACING

THE REQUIRED BEDDING AND BACKFILL MATERIAL, FABRIC ENVELOPE, AND THE COST FOR MATERIALS.

INVERT ELEVATION TO BE 6" HIGHER THAN INVERT P.C.C. GROUT

CONNECTION TO STRUCTURE PIPE UNDERDRAIN DETAIL

## **RESTRICTED DEPTH SANITARY MANHOLE**

CAST IRON MANHOLE FRAME AND LID, NEENAH FOUNDRY NO. R-1713 OR EQUAL WITH

MINIMUM OF 2" AND MAXIMUM OF 6" OF PRECAST REINFORCED CONCRETE ADJUSTMENT RINGS

PRECAST REINFORCED CONCRETE FLAT TOP (SEE I.D.O.T. STANDARD 2354-1 FOR REINFORCEMENT)

KEYED JOINT WITH O-RING OR MASTIC SEAL

PIPE OPENING) SEE MWRD NOTE #13

MATERIAL AS CUSHION

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PRECAST REINFORCED CONCRETE SECTIONS FABRICATED IN ACCORDANCE WITH A.S.T.M. DESIG. C-478

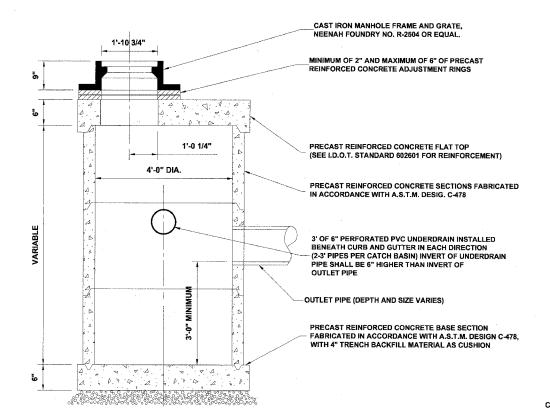
FLEXIBLE SEWER PIPE COUPLING (AT EACH SEWER

PRECAST REINFORCED CONCRETE BASE SECTION. INCLUDING PLATFORM, TROUGH, AND COUPLING COMPONENTS, FABRICATED IN ACCORDANCE WITH A.S.T.M. DESIG. C-478, WITH 4" TRENCH BACKFILL

DIMENSIONS

W T

WORD "SANITARY" CAST INTO LID



1'-10 3/4"

1'-0 1/4"

2'-0" DIA. CONCRETE BENCH **INLET, TYPE A** 

CAST IRON CATCH BASIN FRAME & GRATE, NEENAH FOUNDRY NO. R-2504 OR EQUAL.

MINIMUM OF 2" AND MAXIMUM OF 6" PRECAST REINFORCED CONCRETE ADJUSTMENT RINGS

3" THICK PRECAST REINFORCED CONCRETE SECTION FABRICATED IN COMPLIANCE WITH A.S.T.M. DESIG. C-478

3' OF 6" PERFORATED PVC UNDERDRAIN INSTALLED BENEATH CURB AND GUTTER IN EACH DIRECTION (2-3' PIPES PER INLET) INVERT OF UNDERDRAIN PIPE SHALL BE 6" HIGHER THAN INVERT OF

OUTLET PIPE (SIZE VARIES)

4" THICK PRECAST REINFORCED CONCRETE BASE SECTION FABRICATED IN COMPLIANCE WITH A.S.T.M. DESIG. C-478, WITH 4" OF TRENCH **BACKFILL MATERIAL AS CUSHION** 

CAST IRON MANHOLE FRAME AND LID, NEENAH FOUNDRY NO. R-1713 OR EQUAL WITH WORD "STORM" CAST INTO LID 1'-10 3/4" MINIMUM OF 2" AND MAXIMUM OF 6" OF PRECAST 1'-0 1/4" PRECAST REINFORCED CONCRETE FLOOR FABRICATED IN ACCORDANCE WITH A.S.T.M. DESIG. C-478, WITH 4" TRENCH BACKFILL MATERIAL AS CUSHION 

PRECAST REINFORCED CONCRETE FLAT TOP (SEE I.D.O.T. STANDARD 2354-1 FOR REINFORCEMENT) STEPS 16"O.C. KEYED JOINT WITH 0-RING OR MASTIC SEAL PRECAST REINFORCED CONCRETE SECTIONS FABRICATED IN ACCORDANCE WITH A.S.T.M. DESIG. C-478 REMOVE TOP HALF OF PIPE THROUGH MANHOLE, POUR CONCRETE BENCH AROUND LOWER HALF AND SLOPE UPWARDS 3" TO SIDES

DIMENSIONS T D W В 5" 6" 6" 5'-0" 5" 8" 8" 6'-0" 4'-0"

## **RESTRICTED DEPTH STORM MANHOLE**

ANCOCK CIVIL Engineers

Municipal Consultants 

**RESTRICTED DEPTH CATCH BASIN** 

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**BALMORAL AVENUE IMPROVEMENTS VILLAGE OF WESTCHESTER, ILLINOIS** 

**DRAINAGE & UTILITY DETAILS** 

	SCALE:	NONE
	DRAWN BY:	NAW/LEV/MK
	BOOK NO.:	1394/1427/LS
	DATE:	10-3-07
ISION:	E.H.E. NO.:	838-06-16601